Yash Shinde

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Objective

Dedicated, goal-oriented, and team-oriented individual who seeks an opportunity to work in the field of Software Development and Computional Finance.

Education

Indian Institute of Information Technology　　　　　　　　　　　　　　　　　　　Bhopal
BTech Information Technology　　　　　　　　　　　　　　　　　　　　December 2021 - Present

Relevant Coursework

- Analysis of Algorithms
- Advanced Engineering Maths
- Discrete Structures
- Object Oriented Programming

Skills

Programming Languages:	Python, C++ , C , Rust , Go
Tools:	GitHub (with GitHub Actions), LLVM , Git , Latex
Web Development:	HTML , CSS (Bootstrap and Tailwind) , JavaScript
Libraries / Frameworks:	ReactJs , NodeJs , FastAPI, MongoDb, ExpressJs, Django
Database Management Systems:	MongoDb , MySQL , PostgreSQL
Tech Stacks:	MERN Stack (MongoDb , ExpressJs, ReactJs, NodeJs)
Soft Skills:	Leadership, Communication Skills, Organised

Projects

Tedit text editor　　　　　　　　　　　　　　　　　　　　　　November 2022 - Present
https://github.com/yshinde005/tedit

- Developed a basic text editor application with multiple primary functionalities by implementing CRUD operations.
- I used Rust as the core language to create this application and used its multiple features like shadowing and ownership.

Cevolve programming language　　　　　　　　　　　　　　　　　October 2022 - Present
https://github.com/yshinde005/Cevolve-programming-language

- Build the front end and generate LLVM-IR by using C++. Plan on implementing multiple features such as flow control, mutable variables, etc.
- The Lexer, Abstract-syntax tree, and parser have been built. IR generation for the front end is performed by incorporating LLVM.

Brownian Motion model
https://github.com/yshinde005/BrownianMotion_model

- Implemented a Python function to generate paths of a geometric Brownian motion with ABM using the Euler-Maruyama method, generating 25 paths with 500 steps each.
- Input parameters: Number of paths (25), number of steps (500), time horizon (1 year), interest rate (5), volatility (40), and initial stock price (100). Output: Matrix of log-prices and matrix of prices of the GBM. Plots: Log-price paths and price paths of the GBM over time.

Geo-matrix
https://geo-matrix.vercel.app/

- Created a distance matrix calculator website using Google maps API as the primary back-end.
- Used CSS, and React.Js for the website to be user friendly and easy to use even without any instructions.

Todo list
https://github.com/yshinde005/todo-list-flask

- A basic web-based to-do list application created with multiple basic functionalities by implementing CRUD operations.
- Used Flask as the python backend framework, MySQL as the database to store the tasks(data). Also Dockerized the application for better for convinient deployment on systems.

Traveller Website
https://traveller-website.vercel.app/

- Created a travel destination responsive website compatible with multiple ranges of devices.
- Used HTML, CSS, and Reactjs for the website to be responsive and flexible to further changes.

Position of Responsibility

GNU/Linux Users Club　　　　　　　　　　　　　　　　　　　　　　　IIIT Bhopal
Club Secretary　　　　　　　　　　　　　　　　　　　　　　　August 2022 - Present

- Using Arch linux as my main distribution but I also have experience with most Debian Based(Ubuntu), Fedora, and Arch based distributions.
- Guiding batch mates to install and use Linux distributions comfortably. Also in charge of troubleshooting problems for them.